



ABSTRACT

B11
A pneumatic radial ply passenger tire having a tread, a carcass with two sidewalls, two or more radial plies, two annular beads, a belt structure located radially between the tread and the radial ply structure, and a fabric underlay deployed between the carcass and the belt structure. The underlay contains circumferentially aligned high-modulus fibers or cords which, in combination with metal belt structure, induces compressive prestresses in the belt structure, thereby increasing the rigidity of the belt structure and overlying tread. In particular, fabric underlay induces increased resistance of the tread to upward buckling of its center during runflat operation, and also retards the formation of standing waves in the tread and sidewalls during normal-inflated high-speed operation.

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